

WEST☐ **Generate Collection** **Print**

L5: Entry 85 of 143

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Nov 16, 1982

DERWENT-ACC-NO: 1982-04444J
DERWENT-WEEK: 198248
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TITLE: Filamentary mat - by jet-attenuating polymer streams against mesh before transfer onto collector for travel through oven

INVENTOR: KANE, J L; NADKARNI, V M

PATENT-ASSIGNEE:

ASSIGNEE

CODE

OWENS-CORNING FIBERGLASS CORP

OWEN

PRIORITY-DATA: 1981US-0268962 (June 1, 1981), 1980US-0113994 (January 21, 1980)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 4359445 A	November 16, 1982		006	

INT-CL (IPC): B24J 5/00

ABSTRACTED-PUB-NO: US 4359445A
BASIC-ABSTRACT:

Lofty mat(86) of polymeric filaments is made by extruding(4) molten streams into air blast attenuator (14) to have uneven residual stresses, and moving filaments (12) and air blast along first surface (26) preceding foraminous surface (28) inclined in filaments feed direction, so that some air passes through and some moves with the filaments, the relative amounts of air being controlled pref. by applying controlled vacuum below the mesh surface (38).

From the latter the filaments are laid randomly on collector (78) for travel through crimp-inducing unit (80) so that the mat becomes lofty and thicker than as-laid.

Pref. crimp is generated by blowing hot air up through the laid mat at speed and vol. enough to float it on the collector belt (78).

High quality mat for filters, padding, insulation, civil engineering fabric. . 1/3

TITLE-TERMS: FILAMENT MAT JET ATTENUATE POLYMER STREAM MESH TRANSFER COLLECT TRAVEL THROUGH OVEN

DERWENT-CLASS: A32 F04 P61

CPI-CODES: A11-B02D; A11-B15B; A11-C05A; A12-S05C; A12-S05G; F01-C03; F01-H04; F02-C02;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0229 2020 2198 2214 2378 2475 2476 2485 2486 2488 2493 2510 2524 2528 2529
2646 2703 2734 2762 2820 2844

Multipunch Codes: 013 03- 231 30& 308 309 31& 32& 359 415 427 437 441 446 473 481 483
484 575 581 617 623 626 664 665 666 677 726